

DATA SCIENCE APPLIED ANALYTICS MAJOR (M)

This program will develop in students knowledge and skills needed to ethically manipulate and effectively analyze data, both large and small, revealing insights into problem domains.

In addition to the required courses for the major, students majoring in DSAA may select a concentration in Public Health, Environmental Issues, or Sports and Human Performance to learn context, vernacular, and key issues of a particular field. The concentrations will be noted as an "emphasis" on students' transcripts.

Program Learning Outcomes

- Ethical approach to Data Analysis
- Selection and execution of stats software
- Discern algorithms and tools
- Application to problems
- Communication of solutions

Curriculum

Code	Title	Hours
Core Requirements (https://catalog.cuw.edu/undergraduate/university/acad-prog/trad/core/)		45
Major Requirements		53
Emphasis/Electives		22
Total Hours		120

Major Requirements

Code	Title	Hours
Required Courses		
MATH 201	Calculus I	4
MATH 202	Calculus II	4
MATH 205	Statistics I	3
MATH 220	Discrete Math	3
MATH 305	Statistics II	3
CSC 200	Coding I- Fundamentals	3
CSC 250	Coding II - Algorithms	3
CSC 300	Coding III- Data Structures	3
CSC 410	Computational Dilemmas	3
CSC 430	Database Fundamentals	3
COMM 335	Technical Writing and Speaking	3
COMM 435	Critical Thinking and Information Dissemination	3
DSAA 200	Introduction to Data Science and Analysis	3
DSAA 300	Data Mining and Predictive Analysis	3
DSAA 310	Visual Analytics	3
DSAA 400	Senior Research Seminar	3
DSAA 499	Internship	3
Total Hours		53